

Notice of Allowability

Application No.

09/825,851

Examiner

Aaron C. Perez-Daple

Applicant(s)

FISCHER ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 12/28/04.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☒ The drawings filed on 8/2/01 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

N. El Hadj

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard J. Paciulan (Reg. 28,248) on 5/6/2005.

2. Claims 1-10 as amended below are allowed.
3. Claims 11 remains cancelled by Applicant.
4. The Application has been amended as follows:

In the Abstract, delete lines 8-35 and insert:

A method of providing synchronous transport of packets between asynchronous network nodes. An asynchronous network node capable of transmitting and receiving packets on the asynchronous network is designated as a master node. Each non-master asynchronous network node which desires to synchronously transport packets across the asynchronous network is designated as a slave node. Best arrival times for packets transmitted from slave nodes to the master node are communicated from the master node to the slave nodes. Best packet assembly times for packets to be transmitted by the particular slave node to the master node in the future for the packets to be received by the master node at future master clock referenced best arrival times are determined. Packets for transmission at slave nodes are prepared and transmitted according to determined future best packet assembly time information.

In the Specification:

Amend pg. 1, line 13 – pg. 2, line 6, as follows:

This patent application is further related to the following U.S. Patent Applications filed concurrently herewith and commonly assigned, entitled “A Method of Sharing Information among a Plurality of Stations in a Frame-based Communications Network” co-pending Application No. 09/825,708, “A Method of Enhancing Network Transmission on a Priority-enabled Frame-based Communications Network” co-pending Application No. 09/825,897, “A Method of Determining a Start of a Transmitted Frame in a Frame-based Communications Network” co-pending Application No. 09/825,903, “A Method of Determining an End of a Transmitted Frame in a Frame-based Communications Network” Application No. 09/825,775 now U.S. Patent No. 6,891,881, “A Method for Providing Dynamic Adjustment of Frame Encoding Parameters in a Frame-based Communications Network” co-pending Application No. 09/826,218, “A Method for Selecting Frame Encoding Parameters in a Frame-based Communications Network” co-pending Application No. 09/826,435, “A Method for Selecting Frame Encoding Parameters to Improve Transmission Performance in a Frame-based Communications Network” Application No. 09/825,756 now U.S. Patent No. 6,882,634, “A Method of Determining a Collision Between a Plurality of Transmitting Stations in a Frame-based Communications Network” Application No. 09/825,801 now U.S. Patent No. 6,898,204, “A Method of Controlling Data Sampling Clocking of Asynchronous Network Nodes in a Frame-based Communications Network” co-pending Application No. 09/826,067, “A

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Method for Distributing Sets of Collision Resolution Parameters in a Frame-based Communications Network” Application No. 09/825,689 now U.S. Patent No. 6,877,043, AA Method and Apparatus for Optimizing Signal Transformation in a Frame-based Communications Network” co-pending Application No. 09/825,599, “A Method and Apparatus for Transceiver Noise Reduction in a Frame-based Communications Network” Application No. 09/825,638, “A Method for Selecting an Operating Mode for a Frame-based Communications Network” Application 09/825,791 now U.S. Patent No. 6,888,844, and “A Transceiver Method and Signal Embodied in a Carrier Wave for a Frame-based Communications Network” co-pending Application No. 09/826,239, and ~~AA Transceiver System for a Frame-Based Communications Network~~@.

In the Claims:

1. (currently amended) A method of providing synchronous transport of packets between asynchronous network nodes, each asynchronous network node having a local clock and transmitting and receiving packets to and from the asynchronous network according to an asynchronous network media access protocol, comprising:

designating as a master node an asynchronous network node capable of transmitting and receiving packets on the asynchronous network;

designating as a slave node each non-master asynchronous network node which ~~desires~~ indicates a desire to synchronously transport packets across the asynchronous network as a slave node, wherein each non-master node which does not indicate said desire continues to transmit asynchronously;

synchronizing a master node clock of the master node with a slave node clock of each slave node;

determining at the master node, a best arrival time for the reception by the master node of each particular packet transmitted by each particular slave node;

communicating from the master node to the slave nodes best arrival times for packets transmitted from slave nodes to the master node;

determining at each slave node best packet assembly times for packets to be transmitted by the particular slave node to the master node in the future in order for the packets to be received by the master node at future master clock referenced best arrival times;

continuously correcting each slave node clock compared with the master node clock to smooth slave clock error to an average of zero compared with the master clock as a reference in response to a message from the master node;

preparing packets for transmission at slave nodes according to determined future best packet assembly time information; and

transmitting packets at slave nodes according to the determined future best packet assembly time information


Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron C Perez-Daple whose telephone number is (571) 272-3974. The examiner can normally be reached on 9am-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

 5/25/05

Aaron Perez-Daple


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